

Implementation Matrix Staff Working Copy

Date: March 2, 2022

Category:		Regulatory					
Action Step		Priority*	Staff Lead	Responsible Party	Notes	Story County or Contract	FY23 Budget request
1.1	Adopt and implement stormwater ordinance	Completed	N/A	Board of Supervisors	Planning and Zoning Commission and Board of Supervisors may take action in December.	Story County	\$ -
			AS	Planning and Development			
UPDATE: BOS approved 9-3-19							
1.2	Floodplain ordinance modification	High / Ongoing	AS	Board of Supervisors	Prohibit incompatible uses within streams and lake buffers (AS)	Story County	\$1,150
				Planning and Development			
UPDATE: Regulations were updated in late 2019 and became effective 1/1/2020. We did not incorporate discussion of incompatible uses, however, did add restrictions for soils and increased freeboard.							
1.3	Erosion Control and Stormwater Management Regulations	Medium	AS	Planning and Development	a. Streamline development permitting processes (especially erosion control and stormwater management), engage the development community, and develop legitimacy for new ordinances and policies (AS)		
					b. Develop and implement consistent enforcement strategies and tactics (AS)		
Category:		Programmatic					
Action Step		Priority	Staff Lead	Responsible Party	Notes	Story County or Contract	FY23 Budget request
2.1	Convene a water quality working group (WAWG)	Ongoing	N/A	Board of Supervisors	Interdepartmental working group to guide county water quality efforts and in consideration of water quantity, conduct activities to help reduce flash and river flooding in Story County (LH, SC)	Story County	\$ -
			SC	Story County Conservation Board			
			KG	Environmental Health			
UPDATE: Complete							
UPDATE 9/2019 meetings, nothing recently.							
UPDATE 9/17/2020 Nothing to report							
UPDATE 3/9/2021 Continue to work with WAWG.							
2.2	Develop Riparian Area Action Plan or acquire/protect critical riparian areas	High	MC	Story County Conservation Board	a. Investigate means to establish vegetated buffers on streams and lakes and implement as appropriate. (MC)	Both	\$ -
			N/A	Board of Supervisors	b. Review current Land Development Regulations specifically Chapter 88 General Site Planning Standards) to see how they support or hinder the implementation of the watershed assessments (AS)		
			AS	Planning and Development			
UPDATE: Reviewing Polk County EOF practice adoption framework							
UPDATE: Land development regulation update in May 2021							
UPDATE Jan 2022: Regulation update coming soon. Took draft to SCCB and P&Z (AS)							
			N/A	Board of Supervisors	a. Investigate the economic feasibility of developing a commercial mitigation bank as a means for financing wetland restoration projects (SC)		

2.3	Develop Wetland Mitigation Bank or acquire/protect critical wetlands	High	SC	Story County Conservation Board	b. Prioritize wetland restoration sites using the Agricultural Conservation Planning Framework (ACPF) tool (SC)	Both	\$ 2,500.00
					c. Work to identify willing landowners and funding partners (SC)		
			AS	P&D	d. Review current Land Development Regulations (specifically Chapter 88 General Site Planning Standards) to see how they support or hinder the implementation of the watershed assessments and consider adopting protective measures (AS)	Story County	\$776
					e. Map wetlands (AS)		
UPDATE: Developing conceptual design for nutrient reduction wetland at Dotson. Partnership with Ames.							
UPDATE Jan 2022: Regulation update coming soon. Took draft to SCCB and PZC. Working through issues defining resources to protect so staff/developers/the public understand and can identify them. (AS)							
2.4	Develop Stream Mitigation Bank or stabilize critical streambanks and buffers	High	SC	Story County Conservation Board	a. Investigate the economic feasibility of developing a commercial mitigation bank as a means for financing streambank restoration projects (SC)	Both	\$ 2,500.00
			N/A	Board of Supervisors	b. Prioritize Streambank Erosion Sites (SC)		
					c. Work to identify willing landowners and funding partners (SC)		
UPDATE: Have begun conversations with DOT and engineers to discuss potential of banking in Story County. Working on preliminary designs for oxbow restorations which may qualify for stream credits.							
2.5	Protect native prairie remnants	High / Ongoing	MC	Story County Conservation Board	a. Consider rezoning or other protective measures in the Chapter 88 General Site Planning Standards (AS)	Story County	\$ -
			AS	Planning and Development			
			N/A	Board of Supervisors	b. Identify prairie remnants (MC)		
UPDATE: No progress to date on zoning. Working with landowners case by case to identify protective measures.							
UPDATE 3/2021: C2C Plan Natural Areas map being updated to include conservation priorities, which will result in better protective measures for areas (see 2.2). Amending C2C map needed prior to a rezoning, for a rezoning would need to work with legal so there are no takings.							
UPDATE Jan 2022: regulation update coming soon. Took draft to SCCB and PZC. Working through issues defining resources to protect so staff/developers/the public understand and can identify them. (AS)							
2.6	Sensitive Environmental Areas enhancement and protection program	High	MC	Story County Conservation Board	a. Develop an assistance program for willing landowners (MC)	Story County	\$ -
			AS	Planning and Development	b. Protect parcels with willing landowners (MC)		
			N/A	Board of Supervisors	c. Consider rezoning identified lands to the GB-C Greenbelt Conservation Zone District, with willing landowners (AS)		
UPDATE: Final report will be complete spring 2021.							
UPDATE: Meeting with Mike and Leanne to discuss outreach plan 2-12-20 . See notes under 2.5							
UPDATE Jan 2022: Regulation update coming soon. Took draft to SCCB and PZC. Working through issues defining resources to protect so staff/developers/the public understand and can identify them. (AS)							
2.7	Nutrient Reduction and Bacteria Reduction Practice Implementation	High / Ongoing	SC	Story County Conservation	a. Research and inventory cost share programs to determine availability and ability to leverage funds (SC)	Both	\$ 50,000.00
			N/A	Board of Supervisors	b. Develop a cost share program for conservation practices based on nutrient reduction effectiveness (\$/lbs. system) (SC)		
UPDATE: Considering interagency edge of field nutrient removal program using Polk County model.							
2.8	Nutrient Reduction and Bacteria Reduction Outreach	High	MC, SC	Story County Conservation Board	a. Educate and engage agricultural producers in using conservation practices in farming and livestock production (SC)	Story County	\$ -
					b. Educate and engage residents in methods to reduce bacteria and nutrients entering water resources (MC)		
2.9	Drainage District Operational Guidance	Medium / Ongoing	DM, SW, and MC	Drainage District Trustees	a. Review current procedures and recommendation from Watershed Assessment (All)	Story County	\$ -
					b. As available, share best practices and related materials with Drainage District Trustees and the general public (DM)		
					c. Pilot projects for drainage, i.e. Dotson Wetland Project, IDALS wetlands projects (MC)		
UPDATE: No action has been taken on this item to date. 3/2021 no working group yet.							
UPDATE: No progress - SW 3/9/2021							

2.10	Water Quality Monitoring	High / Ongoing	SC, MC	Story County Conservation Board	a. Convene a working group (e.g. staff, officials, stakeholders) to implement a comprehensive monitoring program according to EOR's recommendations (\$25,000 for Prairie Rivers RC&D Contract) (MC)	Contract	\$ 25,000.00
					b. Work with IIHR to establish Full Sentinel Site monitoring at locations along South Skunk River per watershed assessment Report (SC)		
					c. Continue establishment of General Sentinel Site monitoring at locations identified in watershed assessment (SC)		
					d. Consider initiating discussions with Iowa Flood Center for location of stream sensors (SC)		
UPDATE: A plan is complete and will be publicly available by April 1, 2021							
UPDATE 8/2019: Have met with Ames, Prairie Rivers, and Story County (Keys, Cox, Yoakum) to come up with a comprehensive monitoring plan. Invited Dan Haug, Prairie Rivers, to speak to our group on 8/9/19. He showed what sites we have chosen and what level of testing. The plan is not finalized yet. The county working group decided to get a monitoring plan in place, knowing that it will change as we learn from the testing results, land use changes, budget, etc. changes.							
UPDATE 3/2020: Nothing recent.							
UPDATE 9/20: On 9/15/2020 Attended data sampling subgroup and on 9/15/2020 attended the Story County 10-Year Water Monitoring planning meeting, both meetings run by Prairie Rivers of Iowa.							
UPDATE 3/2021: Working with the Prairie Rivers, cities, IKES, Leopold group to finalize the water monitoring plan. Dan Haug of Prairie Rivers is doing community outreach by giving talks to interested parties, including BOS. Monitoring has been ongoing with Dan Haug doing the 15 water sample collections and City of Ames lab do the analysis. Jerry Keys is heading up the volunteer program. Snapshots continue. (MC)							
2.11	Municipal Outreach	Medium	N/A	Board of Supervisors	a. Partner with ISWEP for lunch and learn moments/opportunities for training the public and cities regarding modern stormwater management and erosion control. (AS, SC)	Both	\$ 1,100.00
			AS	Planning and Development	b. Work with State and Federal authorities and agencies to investigate ways to incorporate stormwater management in municipal infrastructure projects (AS)		
UPDATE: 3/2021 waiting to see if there is legislation that would stop this effort, so low priority on the work program. (AS)							
UPDATE 9/2021: Legislation did not go through but still limiting outreach as of right now. Can focus more once natural areas map and ordinance is updated. (AS)							
2.12	WMA Collaboration	Ongoing	LM/LH	Board of Supervisors	a. Work with existing Watershed Management Authorities (WMA) within the County on common goals (LH)	Story County	\$ 175.00
			SC	Story County Conservation Board	b. Support formation of new WMAs particularly within the South Skunk and Indian Creek watersheds (LH, SC)		
UPDATE: 3/31 loway Creek WMA couple goals set for next year. Headwaters of South Skunk WMA up and running Cox & Harter put out RFP. 28 E Agreement is written. Trying to get some of the smaller cities to sign up.							
UPDATE: Still ongoing with 4-Mile Creek and Squaw Creek WMA; no action on Headwaters WMA. WMA work under way. IOWAY is renamed!							
Update January 2022: We are participating in the Iowa River Watershed Coalition meetings. (SC)							
2.13	Erosion Control and Stormwater Management Outreach	Medium / Ongoing	LH	Board of Supervisors	a. Educate and engage residents and other stakeholders regarding the impacts of erosion and stormwater management (MC)	Both	\$ -
			MC	Story County Conservation Board	b. Partner with municipalities and WMA's to conduct outreach on green infrastructure design to implement ordinances (AS)		
			AS	Planning and Development	c. Outreach programs targeted to schools and homeowners (LH, AS)		
UPDATE: No progress							
UPDATE: Meeting with Mike and Leanne to discuss outreach plan 2-12-20							
3/2021 Waiting on legislation, so on hold for now.							
UPDATE 9/2021: Legislation did not go through but still limiting outreach. Can focus more once natural areas map and ordnance are finalized. (AS)							
			LH	Board of Supervisors	a. Initiate staff discussions with County Attorney regarding interpretation and use of floodplain ordinance for conservation practices (AS)		
					b. Initiate high-level discussions with U.S. FEMA and Iowa DNR about federal and state interpretation of conservation practices in the floodplain (AS)		

2.14	Floodplain Management	High	AS	Planning and Development	c. Educate and engage stakeholders regarding County's interpretation of floodplain ordinance (LH, AS)	Story County	\$	-
					d. Continue to explore partnerships and opportunities for the protection of flood prone properties in unincorporated Story County (AS, MC)			
					e. Distribute the "Know your Floodplain" curriculum to middle school and high school science/voc-ag teachers annually and provide opportunities to use the Ward 3-D Stormwater Simulation Model to engage with students and citizens (LH, AS)			
					f. Develop Substantial Damage Management Plans (as part of the Community Rating System (CRS) Program) (LH, AS)			
UPDATE: Regulations were updated in late 2019 and became effective 1/1/2020. We did not incorporate discussion of incompatible uses, however, did add restrictions for soils and increased freeboard.								
UPDATE: 9/2021 No outreach done yet.								
UPDATE Jan 2022: planning to do outreach with ordinance amendment this year realted to action step 1.2								
2.15	Feedlot Outreach	Medium	N/A	Board of Supervisors	a. Establish policy and practices for County staff (KG)	Story County	\$	250.00
			KG	Environmental Health	b. Provide training to County staff who are in the field to recognize environmental issues associated with feedlots (KG)			
					c. Coordinate with other counties, cities, and other entities to create and implement strategy to lobby state legislature for improved role for counties in feedlot regulation (LM, KG)			
UPDATE: 2/2/2020 Developed information for website on how to spot and report manure management problems.								
3/3/2020 Set up a training for employees to spot and report manure issues.								
UPDATE 9/17/20: Had a master matrix review for Maxwell North. Submitted complaints to DNR on Couser, Maxwell North and Richland 10. Worked with Linda Murken to submit an ISAC legislation request to review the current CAFO permitting process.								
UPDATE 3/2021: Tracking legislation for CAFO bills. No expectations that the bills will go anywhere.								
UPDATE 1/31/2022: Will work to revamp what has been done for previous staff trainings. Put in \$250 for mailings/flyers/trainings (KG)								
2.16	Establish Source Water Protection Plans	Low	KG	Board of Supervisors	Affected cities work with the Iowa Department of Natural Resources to conduct site investigations and development protection plans. (KG, SC)	Story County	\$	-
				Environmental Health				
UPDATE: 3/3/2020 Summarized the Source Water Protection Plan status for the municipalities in county. See S drive.								
9/17/20 No changes to report.								
3/2021 No changes to report.								
2.17	Wastewater Management Practices	Medium	N/A	Board of Supervisors	a. As appropriate, identify opportunities to partner with communities for required wastewater facility upgrades. (BOS/LM)	Story County	\$	250.00
			KG	Environmental Health	b. Identify, and if available, provide additional resources for illicit discharge detection and elimination (KG)			
					c. Work with wastewater treatment operators within County to investigate options for developing a nutrient trading program (SC)			
					d. Identify and promote available financial assistance programs for property owners with failing/non-compliant private septic systems and establish a cost share program for failing/non-compliant private septic systems at the County level (KG)			
UPDATE 9/17/20 Public hearing for septic ordinance is set for November 18, 2020. There is an ISU chemistry professor studying optical brighteners that the water monitoring group hopes to take advantage of. I was finally successful identifying the source house for ponded sewage near Squaw Creek by hiring Earl's Sanitation to use their tile tracker. Helped one property owner submit a low-interest loan application for septic replacement, and am currently helping a property owner secure a grant for septic replacement.								
UPDATE 3/2021 Ordinance passed requiring septic tanks be pumped every five years. House Bill 728 on the calendar for a vote for preventing counties for penalizing property owners for not pumping.								
UPDATE 1/31/2022: County ARPA funds are being used to help with 'a' and several have applied. Regarding 'd' the state has received money to help with septic in unsewered communities. Did a mailing to 128 property owners who are potentially eligible. Going to host trainings and send out more information to installers and inspectors. Also promoting financial assistance programs. \$250 to help with mailings and trainings. (KG)								
	Update ACPF Data (to reflect		MB		a. Update existing practices data on mapping tools (SC, MB)			

2.18	Implementation practices and planning)	High / Ongoing	SC	Story County Conservation Board	b. Update existing conservation practices GIS layer on agricultural land (SC, MB)	Story County	\$ -
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Category:	Capital Improvement
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Action Step		Priority		Responsible Party	Notes	Story County or Contract	FY20 Budget request
3.1	Drainage Ditches	Ongoing	DM	Drainage District Trustees	As projects come up, as applicable, and when the Drainage District Trustees request an engineering report, analyze all drainage ditch maintenance and improvement needs for water quality practices (DM)	Story County	\$ -

UPDATE: All drainage district projects designed by the district engineer will be evaluated for the potential of adding water quality improvements as part of the project. Some IDALS projects are already in the works. 3/2021 As projects come up, engineering reviews the plans for water quality issues.

3.2	Story County Infrastructure	Ongoing	LH	Board of Supervisors	Ensure capital projects have a positive or neutral effect on water quality (LH, LM)	Story County	\$ -
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UPDATE: The Final CIP should have some language regarding this added into it. CIP needs to look at any impacts on water quality. Permitting required